Prateek K.

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech in Engineering Science	Indian Institute Of Technology, Jodhpur(India)	6.41 (Current)	2022-Present
Senior Secondary	CBSE Board	87.0%	2021
Secondary	CBSE Board	91.0%	2019

EXPERIENCE

Frontend Developer | *IITian Vibes* | *Live*   01/2025 – 03/2025 | Remote
- Developed and maintained user interfaces using React.js and Tailwind CSS, improving website responsiveness and load time by 40%.
- Collaborated with backend team to integrate REST APIs and dynamic content rendering for a seamless user experience.
- Ensured cross-browser compatibility and mobile-first design principles for optimal accessibility.
- **Skills:** React.js, Tailwind, REST APIs, Git, UI/UX Optimization

PROJECTS

Bruce | *Self Project* | *Github* | *Live*   **02/2024 – Current**
- Engineered Bruce, a SaaS platform for AI-powered presentations with real-time streaming and drag-and-drop editing.
- Built with Next.js 15, Prisma, Neon, and Shadcn UI.
- Integrated monetization using LemonSqueezy, and implemented Clerk-based auth.
- **Skills:** Next.js, Typescript, Prisma, Neon, Shadcn, Drag-and-Drop, Clerk, Full Stack Development

E-commerce Store | *Self Project* | *Github*   **12/2024 – 04/2025**
- Designed a production-ready e-commerce site with JWT-based auth and Redis caching.
- Optimized backend performance, reducing API response time by 40% and supporting concurrent users via role-based access and efficient MVC architecture.
- Implemented scalable media storage with Cloudinary and secure payment flow mockup with Stripe-ready endpoints.
- **Skills:** Node.js, React.js, MongoDB, Redis, JWT, Cloudinary, API Security, Full Stack Architecture

Landmine Detection System | *Course Project* | *Github* | *Live*   **01/2024 – 05/2024**
- Developed a real-time landmine detection system using Raspberry Pi and IR sensors, achieving >90% detection accuracy in controlled test simulations.
- Created a live data visualization dashboard connecting 3+ devices, enhancing safety response time by 20%.
- Selected for exhibition at DRDO showcase at IIT Jodhpur.
- **Skills:** IoT, Raspberry Pi, Python, Sensor Integration, Real-time Systems, Embedded Applications

SKILLS

- **Languages:** JavaScript, Python, C/C++, R
- **Frontend:** React.js, Next.js, Tailwind, Shadcn, HTML, CSS
- **Backend:** Node.js, Express.js
- **Databases:** MongoDB, Prisma, Neon, Mongoose
- **Authentication & APIs:** JWT, Clerk, REST APIs
- **Dev Tools:** Git, GitHub, Vercel, Postman, Netlify
- **Other Tools:** Redis, Cloudinary, Excel, Latex, Canva, Figma

KEY COURSES TAKEN

Introduction to C	Machine Learning	Data Structures and Algorithms	Digital Image Analysis
Computer Architecture	Operating System	Probability and Statistics	Computer Networks
Database Management System	Embedded Systems And IoT	Process Control and Its AI Applications	Linear Algebra

ACHIEVEMENTS

- Ranked in the top **8%** among **1 million candidates** in JEE Mains 2022, demonstrating strong problem-solving skills essential for software development and algorithm design.
- Selected among top 30 groups for DRDO exhibition at IIT Jodhpur, recognising innovation in real-time landmine detection.
- Changed branch from **Materials Engineering** to **Engineering Science** with **specialisation in Computer Science**

POSITIONS OF RESPONSIBILITY

- **Festival Chief, Varchas 2024** – Led a cross-functional team of 200+ (including web dev) to build the official event website with 5,000+ users; managed INR 3.75M budget (raised INR 2M), and boosted engagement by 30% via live analytics.
- **Student Guide** – Mentored 11 students to familiarize them with the culture and environment of IIT Jodhpur.
- **Assistant Head, Varchas'23** – Worked in the Marketing vertical, managing overall budget for the event.
- **Assistant Head, Ignus'23** – Contributed to event planning and execution within the Cultural vertical.